

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: OSONE, et al.

Serial No.: Not yet assigned

Filed: February 19, 2004

For: VARIABLE CAPACITOR SYSTEM, MICROSWITCH AND  
TRANSMITTER-RECEIVER

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR 1.97 & 1.98**

Mail Stop DD  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

February 19, 2004

Sir:

In the matter of the above-identified application, applicants are submitting herewith a copy of the documents listed in the attached form equivalent to Form PTO-1449 for the Examiner's consideration.

This information disclosure statement is being submitted with the new application.

Although some of the documents listed on the attached form equivalent to Form PTO-1449 are not in the English language, the requirement of 37 CFR 1.98(a)(3) for a concise explanation of the relevance is satisfied by the discussion of the documents in the specification, for example, on page three (3).

It is respectfully requested that this information disclosure statement be considered by the Examiner.

Please charge any shortage in the fees due in connection with the filing of this paper, including extension of time fees, to the deposit account of Antonelli, Terry, Stout & Kraus Deposit Account No. 01-2135 (Case: 500.43521X00), and please credit any excess fees to such deposit account.

Respectfully submitted,

ANTONELLI, TERRY, STOUT & KRAUS LLP



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Paul J. Skwierawski  
Registration No. 32,173

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|---|--|---|-------------------|
| <b>Form PTO-1449</b>  | <b>U.S. DEPARTMENT OF COMMERCE<br/>PATENT AND TRADEMARK OFFICE</b> | <b>ATTY. DKT. NO.</b><br>500.43521X00   | <b>SERIAL NO.</b> |
| <b>INFORMATION DISCLOSURE STATEMENT<br/>BY APPLICANT</b><br><br>(Use several sheets if necessary) |  | <b>APPLICANT</b><br>OSONE, et al.       |                   |
|   |  | <b>FILING DATE</b><br>February 19, 2004 | <b>GROUP</b>      |

**U.S. PATENT DOCUMENTS**

| Examiner Initial | Document Number | Date | Name | Class | Subclass | Filing Date |
|------------------|-----------------|------|------|-------|----------|-------------|
|                  | AA              |      |      |       |          |             |
|                  | AB              |      |      |       |          |             |
|                  | AC              |      |      |       |          |             |
|                  | AD              |      |      |       |          |             |
|                  | AE              |      |      |       |          |             |
|                  | AF              |      |      |       |          |             |
|                  | AG              |      |      |       |          |             |
|                  | AH              |      |      |       |          |             |
|                  | AI              |      |      |       |          |             |
|                  | AJ              |      |      |       |          |             |
|                  | AK              |      |      |       |          |             |
|                  | AL              |      |      |       |          |             |

**FOREIGN PATENT DOCUMENTS**

| Examiner Initial | Document Number | Date        | Country    | Class | Subclass | Abstract |    |
|------------------|-----------------|-------------|------------|-------|----------|----------|----|
|                  |                 |             |            |       |          | Yes      | No |
|                  | AM              | 2000-100659 | 04/07/2000 | JP    | H01G     | 5/16     | X  |
|                  | AN              | 10-308603   | 11/17/1998 | JP    | H01P     | 1/20     | X  |
|                  | AO              | 9-162462    | 9-162462   | JP    | H01L     | 49/00    | X  |
|                  | AP              |             |            |       |          |          |    |
|                  | AQ              |             |            |       |          |          |    |
|                  | AR              |             |            |       |          |          |    |
|                  | AS              |             |            |       |          |          |    |
|                  | AT              |             |            |       |          |          |    |

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

|                 |    |   |
|-----------------|----|---|
|                 | AU | Kuniki OHWADA, "MEMS Variable Capacitor for RF Applications", MWE2001 Microwave Workshop Digest, Pgs. 41-46   |
|                 | AV | Aleksander DEC, et al., "Micromachined Electro-Mechanically Tunable Capacitors and Their Applications to RF IC's, IEEE Transactions on Microwave Theory and Techniques, Vol 46, No. 12, December 1998 |
|                 | AW |   |
|                 | AX |   |
|                 | AY |   |
|                 | AZ |   |
| <b>Examiner</b> |    | <b>Date Considered</b>  |